

# Hammad Khan

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## Education

### University of Toronto

Toronto, Canada

HONORS B.Sc. BIOLOGY SPECIALIST, COMPUTER SCIENCE MINOR

Sep. 2014 - 2018

- University of Toronto graduate with an Honors BSc. in Biology with a focus on Computational Biology and Bioinformatics.
- Experience with defining workflows for data analysis and interpreting results of computational analysis of biological data.
- Scotiabank Entrance Scholarship for Academic Excellence, Nancy Salmon Scholarship Fund

## Work Experience

### Plotly

Montréal, Canada

INTERN SOFTWARE ENGINEER

May. 2019 - Present

- Designed and built web data analytics applications for life sciences, financial, automotive and energy sectors using the Dash framework in Python and R.
- Explored and visualized data from diverse sources; developed data manipulation and an understanding of analytics best practices.
- Developed additions to the Plotly and Dash R open source community including synergistic Dash Bio applications and workflow pipelines.
- Performed code reviews, weekly app presentations, and app deployments to Azure and Amazon Web Services servers.

### Cognizant

Toronto, Canada

TECHNICAL REPORTING ANALYST - TEAM LEAD

May. 2018 - Present

- Identified data-driven solutions to incidents for TJX Project while managing analysis and support team in day to day operations.
- Facilitated communication between clients and specialized teams while identifying areas for improvement and process gaps.
- Performed incident data analysis to diagnose problem areas using Excel to identify issues and formulate targeted solutions.
- Engaged in store systems support as systems engineer and created guidelines for systems maintenance and technical troubleshooting based on incident data

## Project Experience

### Independent Research Project

University of Toronto, Canada

GENOMICS

January. 2018 - March. 2018

- Performed statistical and biological analysis on patient data from the Personal Genome Project by emulating pipelines presented in journal article.
- Visualized statistical results in R with MatLab and presented interactive interface for results with R Shiny Applet.

### Bioinformatics and Computational Biology Hackathon 2018

University of Toronto, Canada

FINALISTS

March. 2018

- Created a data-driven visual representation of our current understanding of the human genome by pulling data from various databases and compiling it in a final graphical render.
- Collaborated with a team of engineering, biology, and bioinformatics students to deliver a visual model, generated from multiple programming languages and disciplines.

## Skills

**Technical** R(Advanced), Python (Proficient), JavaScript (Familiar), HTML/CSS (Proficient), Tableau (Proficient), SPSS Statistics (Intermediate), Unix Shell Programming Environment (Intermediate), Microsoft Excel (Proficient), Adobe Photoshop (Advanced), Adobe Illustrator (Proficient), Microsoft Office Suite (Proficient)

**Relevant**  
**Data Analysis** - Big Data parsing and cleaning, algorithm analysis, data structuring and visualization..  
**Software Engineering** - Application design, version control, dashboard creation, web development, GitHub, application deployment.  
**Bioinformatics** (DNA/Protein alignment and sequence analysis, genome sequencing.  
**Genomics** - Variant mining, RNAseq transcript assembly and analysis, de Novo assembly.